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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,641	12/20/2005	Stefan Hoffmann	2003P00694WOUS	6107

22116 7590 06/30/2008  
SIEMENS CORPORATION  
INTELLECTUAL PROPERTY DEPARTMENT  
170 WOOD AVENUE SOUTH  
ISELIN, NJ 08830

EXAMINER
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WONGWIAN, PHUTTHIWAT

ART UNIT	PAPER NUMBER
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4177

MAIL DATE	DELIVERY MODE
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06/30/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/561,641	<b>Applicant(s)</b> HOFFMANN, STEFAN	
	<b>Examiner</b> PHUTTHIWAT WONGWIAN	<b>Art Unit</b> 4177	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 December 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 11-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>12/20/2005</u> .  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This office action is responsive to the preliminary amendment filed on 12/20/2005. As directed by the amendment: claims 1-10 have been cancelled, and new claims 11-19 have been added. Thus, claims 11-19 are presently pending in this application.

#### ***Priority***

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in EPO on 07/04/2003. It is noted, however, that applicant has not filed a certified copy of the foreign application as required by 35 U.S.C. 119(b).

#### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 11-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Joshi (US Patent No. 4,928,481).

3. As to claim 11, Joshi discloses an open-cooled component (fig. 1) for a gas turbine, comprising: an outer wall 12, 28 (fig. 1) exposed to a hot gas (fig. 1, the outer wall 28 exposes to the hot gas directly, the outer wall 12 exposes to the hot gas indirectly through convection heat transfer from the inner layer 29, therefore, the outer wall 12 and 28 exposed to the hot gas); a first cavity 37, 47 (fig. 1, the combustion chamber is the first cavity) partly defined by the outer wall and for a first medium 32 (fig.

1); a plurality of through-openings 45 (fig. 1, the through-opening is positioned between the outer wall 28 and 12) are arranged in the outer wall and the through-openings open into the first cavity (fig. 1) on a first side 28 (fig. 1) and into the hot-gas space on a second side 12 (fig. 1); and a second cavity 13 (fig. 1) for admixing a second medium A (fig. 1, air), the second cavity being fluidically connected to the through-openings (fig. 1, the second cavity is connected to the through-opening), wherein the second cavity is formed by supply passages 13 (fig. 1, there are plurality of transverse passages 34, the supply passages supply air to the transverse passages, therefore, there are a plurality of supply passages) that are provided in the outer wall and are connected via transverse passages 34 (fig. 1, the ports 34 are the transverse passages) to the through-openings designed as through-bores, so that the two media cannot be mixed until inside the through-bores (fig. 1, the air and fuel are mixed inside the through-opening).

4. As to claim 12, Joshi discloses the outer wall has a multiplicity of through-bores 45 (fig. 1), a multiplicity of supply passages 13 (fig. 1, the transverse passages 34 positioned around the outer wall 28, the air is supplied to each of the multiple transverse passages 34 via supply passages 13, therefore, the supply passage is considered to be multiplicity of supply passages) running between the bores (fig. 1), and a multiplicity of further transverse passages 34 (fig. 1) linking the supply passages with the through-bores (fig. 1, the transverse passages 34 are connected between supply passages 13 and through-bores 45).

5. As to claim 13, Joshi discloses the outer wall has at least two layers 28, 12 (fig. 1) which can be connected to one another.
6. As to claim 14, Joshi discloses the passages are incorporated between two layers in a layer surface 29, 12 (fig. 1, the passages are disposed between two layers 12 and 28, between inner layer surface 29 and inner layer face of 12).
7. As to claim 15, Joshi discloses the first cavity is connected to a first fluid source F (fig. 1, fuel) and the supply passages can be connected to a second fluid source A (fig. 1, air).
8. As to claim 16, Joshi discloses one of the two fluid sources is an oxidation source A (fig. 1, air) and the other fluid source is a fuel source F (fig. 1).
9. As to claim 17, Joshi discloses the component is a wall element of a combustor chamber 10 (fig. 1).
10. As to claim 18, Joshi discloses a combustion chamber for a gas turbine (fig. 1), comprising: an outer wall 12, 28 (fig. 1) exposed to a hot gas (fig. 1, the outer wall 28 exposes to the hot gas directly, the outer wall 12 exposes to the hot gas indirectly through convection heat transfer from the inner layer 29, therefore, the outer wall 12 and 28 exposed to the hot gas); a first cavity 37, 47 (fig. 1, the combustion chamber is the first cavity) partly defined by the outer wall and for a first medium 32 (fig. 1); a plurality of through-openings 45 (fig. 1, the through-opening is positioned between the outer wall 28 and 12) are arranged in the outer wall and the through-openings open into the first cavity (fig. 1) on a first side 28 (fig. 1) and into the hot-gas space on a second side 12 (fig. 1); and a second cavity 13 (fig. 1) for admixing a second medium A (fig. 1,

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air), the second cavity being fluidically connected to the through-openings (fig. 1, the second cavity is connected to the through-opening), wherein the second cavity is formed by supply passages 13 (fig. 1, there are plurality of transverse passages 34, the supply passages supply air to the transverse passages, therefore, there are a plurality of supply passages) that are provided in the outer wall and are connected via transverse passages 34 (fig. 1, the ports 34 are the transverse passages) to the through-openings designed as through-bores, so that the two media cannot be mixed until inside the through-bores (fig. 1, the air and fuel are mixed inside the through-opening).

11. As to claim 19, Joshi discloses a gas turbine comprising a compressor section (col. 4, line 65-66, "the compressor stage"), a turbine section (col. 5, line 2, "the turbine stage") and a combustion chamber 11 (fig. 1), the combustion chamber comprising an outer wall 12, 28 (fig. 1) exposed to a hot gas (fig. 1, the outer wall 28 exposes to the hot gas directly, the outer wall 12 exposes to the hot gas indirectly through convection heat transfer from the inner layer 29, therefore, the outer wall 12 and 28 exposed to the hot gas); a first cavity 37, 47 (fig. 1, the combustion chamber is the first cavity) partly defined by the outer wall and for a first medium 32 (fig. 1); a plurality of through-openings 45 (fig. 1, the through-opening is positioned between the outer wall 28 and 12) are arranged in the outer wall and the through-openings open into the first cavity (fig. 1) on a first side 28 (fig. 1) and into the hot-gas space on a second side 12 (fig. 1); and a second cavity 13 (fig. 1) for admixing a second medium A (fig. 1, air), the second cavity being fluidically connected to the through-openings (fig. 1, the second cavity is

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connected to the through-opening), wherein the second cavity is formed by supply passages 13 (fig. 1, there are plurality of transverse passages 34, the supply passages supply air to the transverse passages, therefore, there are a plurality of supply passages) that are provided in the outer wall and are connected via transverse passages 34 (fig. 1, the ports 34 are the transverse passages) to the through-openings designed as through-bores, so that the two media cannot be mixed until inside the through-bores (fig. 1, the air and fuel are mixed inside the through-opening).

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUTTHIWAT WONGWIAN whose telephone number is 571-270-5426. The examiner can normally be reached on Monday - Thursday, 7:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, QUANG D. THANH can be reached on 571-272-4982. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. W./  
Examiner, Art Unit 4177

/Quang D. Thanh/  
Supervisory Patent Examiner,  
Art Unit 4177